

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: BUXTON1

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| In re Application of: |) | Conf. No.: |
| Francis Paul BUXTON et al. |) | |
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| IA No: PCT/EP2003/014089 |) | Art Unit: |
| |) | |
| IA Filed: December 11, 2003 |) | Examiner: |
| |) | |
| Appln. No.: Not yet assigned |) | Washington, D.C. |
| |) | |
| For: METHODS FOR DISGNOSING AND |) | June 10, 2005 |
| TREATING SCHIZOPHRENIA |) | |

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop Amendment
401 Dulany Street
Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed:

[X] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

[] B. before the mailing date of a first office action on the merits or before the mailing of a first Office action after the filing of a Request for Continued Examination under 37 CFR §1.114; or

☐ C. after (A) and (B) above, but before final rejection or allowance, and Applicant has made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below):

☐ i. Counsel certifies that, upon information and belief, each item of information listed herein either was

☐ (a) first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, not known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this IDS.

☐ ii. Credit Card Payment Form, PTO-2038, is attached authorizing payment of the fee set forth in 37 CFR §1.17(p), presently believed to be \$180. If the enclosed payment is incorrect, please charge any additional fees or credit any overpayment to Deposit Account No. 02-4035 of the undersigned.

☒ 2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form BN/SB/08A/B) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. Other than U.S. patent(s) and/or published U.S. application(s), which 37 CFR §1.98(a)(2)(ii) does not require to be filed unless specifically required by the Office, a copy of each document listed is attached, except as explained below:

☐ A. Document(s) _____ is/are deemed substantially cumulative to document(s) _____, and,

in accordance with 37 CFR \$1.98(c), a copy of each of the former document(s) is not enclosed.

[] B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

(insert serial numbers and filing dates of prior applications)

Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449, PTO/SB/08a and/or PTO/SB/08b (or their BN form equivalents) from the files of the prior application(s) or a fresh BN/SB/08A and/or BN/SB/08B listing these documents, and request that they be considered and made of record in accordance with 37 CFR \$1.98(d). Per 37 CFR \$1.98(d), copies of these documents need not be filed in this application.

[] 3. Document(s) _____ is/are not in the English language. In accordance with 37 CFR \$1.98(a)(3), Applicant states:

[] An English translation of each document _____ (or of the pertinent portions thereof), or a copy of an English-language abstract (or claim) is enclosed.

[] For documents _____, a corresponding English-language patent or published application is included on the accompanying Form BN/SB/08A, with a line drawn in the margin connecting the non-English-language document with its corresponding English-language document.

[] A concise explanation of the relevance of document(s) _____ is found in the attached _____ search report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).

[] A concise explanation of the relevance of document(s) _____ is set forth as follows:

[] A concise explanation of the relevance of document(s) _____ can be found on page(s) _____ of the specification.

[] A concise explanation of the relevance of document(s) _____ can be found on the attached sheet.

[X] 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 5. Other information being provided for the examiner's consideration follows:

International Search Report

6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number 10/538339
Filing Date Even date herewith
First Named Inventor Francis Paul BUXTON
Group Art Unit
Examiner Name
Attorney Docket Number BUXTON1

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Number Country Code ³ Number ⁴ Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|---|--------------------------------|--|---|----------------|
| | AA | WO 02/079218 A1 | 10-10-2002 | Wyeth | | |
| | AB | WO 03/078658 A2 | 09-25-2003 | Novartis AG | | |
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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| Substitute for form 1449A/PTO | | Complete if known 10/538339 | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | Not yet assigned |
| | | Filing Date | Even date herewith |
| | | First Named Inventor | Francis Paul BUXTON |
| | | Group Art Unit | |
| | | Examiner Name | |
| Sheet 2 | of 2 | Attorney Docket Number | BUXTON1 |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| | AC | Benes, F.M. et al., "Increased GABA _A receptor binding in superficial layers of cingulate cortex on schizophrenics", The Journal of Neuroscience, (March 1992), Vol. 12, No. 3, pp. 924-929. | |
| | AD | Dolan, R.J. et al., "Dopaminergic modulation of impaired cognitive activation in the anterior cingulate cortex in schizophrenia", Nature, (Nov. 9, 1995), Vol. 378, No. 6553, pp. 180-182. | |
| | AE | Evans, S.J. et al., "DNA microarray analysis of functionally discrete human brain regions reveals divergent transcriptional profiles", Neurobiology of Disease, (Nov. 2, 2003), Vol. 14, No. 2, pp. 240-250. | |
| | AF | Hakak, Y. et al., "Genome-wide expression analysis reveals dysregulation of myelination-related genes in chronic schizophrenia", PNAS, (April 10, 2001), Vol. 98, No. 8, pp. 4746-4751. | |
| | AG | Harrison, P.J., "The neuropathology of schizophrenia. A critical review of the data and their interpretation", Brain, (1999), Vol. 122, pp. 593-624. | |
| | AH | Mirnic, K. et al., "Analysis of complex brain disorders with gene expression microarrays: schizophrenia as a disease of the synapse", Trends in Neuroscience, (August 1, 2001), Vol. 24, No. 8, pp. 479-486. | |
| | AI | Tamminga, C.A. et al., "The limbic cortex in schizophrenia: focus on the anterior cingulate", Brain Research Reviews, (2000), Vol. 31, pp. 364-370. | |
| | AJ | Mundo, E. et al., "Monocyte chemoattractant protein-1 gene and schizophrenia", American Journal of Medical Genetics, (Oct. 8, 2002), Vol. 114, No. 7, pg. 863. | |
| | AK | Schwarz, M.J. et al., "T-helper-1 and T-helper-2 Responses in Psychiatric Disorders", Brain, Behavior, and Immunity, (Dec. 2001), Vol. 15, No. 4, pp. 340-370. | |
| | AL | Teuscher, C. et al., "Sequence Polymorphisms in the Chemokines Sca1 (TCA-3), Sca2 (Monocyte Chemoattractant Protein (MCP)-1), and Sca12 (MCP-5) Are Candidates for eae7, a Locus Controlling Experimental Allergic Encephalomyelitis", Journal of Immunology, (1999), Vol. 163, pp. 2262-2266. | |
| | AM | Vawter, M.P. et al., "Application of cDNA microarrays to examine gene expression differences in schizophrenia", Brain Research Bulletin, (July 2001), Vol. 55, No. 5, pp. 641-650. | |
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| Examiner Signature | Date Considered |
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.